-Index-

JOURNAL OF ANALYTICAL CHEMISTRY OF THE USSR

Volume 13, 1958

JOURNAL OF ANALYTICAL CHEMISTRY OF THE USSR

Volume 13, Number 1 January-February 1958

CONTENTS

	PAGE	RUSS. PAGE
The Use of Selenourea in Analytical Chemistry. I. The Behavior of Selenourea Toward the Cations of the Heavy Metals and the Composition and Stability of the Selenourea Complexes of Bismuth. A. T. Pilipenko and I. P. Sereda	1	3
A Study of the Formation of Silver Chloride and Silver Bromide by Light Extinction. I. V. Tananaev and Ia. L. Kogan	9	11
Dialkyl- and Diaryldithiophosphoric Acids as Analytical Reagents. Communication 3. Determination of Palladium by Means of Nickel or Potassium Dialkyl and Diaryldithiophosphates. A. I. Busev and M. I. Ivaniutin	15	18
New Complexones. Communication 3. Benzylaminediacetic Acid and α,α',α"-Triaminedibenzyldiphenyl Methanehexaacetic Acid. R. P. Lastovskii, Iu. I. Vainshtein, N. M. Diatlova and I. D. Kolpakova	29	31
Application of Oscillographic Polarography in Quantitative Analysis. Communication 1. Effect of Atmospheric Oxygen Dissolved in the Electrolyte on the Values of the Capacity Current of the Supporting Electrolyte and the Maximum Value of the Current of the Ions Being Reduced. Ia. P. Gokhshtein	35	36
The Use of the Mass Spectrometer for Establishing the Resolving Capacity of Chromathermographic Apparatus. N. M. Turkel'taub and L. Iu. Abramovich	43	43
Determination of Sodium and Potassium in Minerals by Flame Spectrophotometry. N. S. Poluetkov, M. P. Nikonova and R. A. Vitkun	49	48
An Arc Lamp for Emission Spectrographic Analysis of Powders. N. N. Semenov	57	56
Determination of Gallium in Minerals by Means of the Rhodamine Photometric Method. V. S. Saltykova and E. A. Fabrikova	65	63
A New Reagent for the Photometric Determination of Gallium — Gallion. Communication I. The Effect of Substituents on the Properties of Organic Reagents. A. M. Lukin and G. B. Zavarikhina	69	66
Photometric Determination of Tantalum in Titanium and its Alloys by Means of Arsenazo Reagent. E. I. Nikitina	75	72
Organic Coprecipitants. Communication 8. Coprecipitation of Uranium During its Determination in Sea Water. V. I. Kuznetsov and A. A. Akimova	83	79
Polarographic Determination of Uranium in the Presence of Vanadium and Iron. Iu. V. Morachevskii and A. A. Sakharov	87	83
The Use of Radiometric Methods for the Simultaneous Separate Determination of the Content of Uranium, Thorium, Radium and Potassium in Acid Igneous Rocks. A. S. Serdiukova and Iu. T. Kapitanov	93	88

CONTENTS (continued)

	PAGE	RUSS. PAGE
A Gravimetric Method of Determining Uranium Using Cupferron for its Separation. S. V. Elinson and V. A. Olezniuk	101	95
Determination of Uranium, Thorium and Ionium in Sea Silt. L. A. Kuz'mina.	107	100
A Spectrographic Method for the Determination of Small Amounts of Lead, Tin, Cadmium, Antimony and Bismuth in Metallic Rhenium. Iu. I. Kutsenko	115	107
Kinetic Methods of Quantitative Analysis. Communication 4. Determination of Small Amounts of Tungsten. K. B. Iatsimirskii and V. I. Rigin.	121	112
Spectrochemical Determination of Platinum and Palladium in Uranium. O. I. Bufatin, A. N. Zaidel' and N. I. Kaliteevskii	127	116
A New Method of Determining Tellurium. I. P. Onufrienok and V. M. Aksenenko	129	119
Absorption of Sulfur Oxides by Silicates. P. N. Fedoseev	133	123
Analysis of High Molecular Weight Organosilicon Compounds by Infrared Spectroscopy. A. P. Kreshkov, Iu. Ia. Mikhailenko and E. A. Kirichenko.	139	127
Bromometric Methods for the Determination of Unsaturated Hydrocarbons in Isopentane--Isoprene-Isoamylene Mixtures. B. A. Kazanskii, O. D. Sterligov, A. P. Belen'kaia, G. Ia. Kondrat'eva, and P. S. Pavlova	147	134
A New Method for the Quantitative Determination of Reducing Sugars in Wood Hydrolyzates and Sulfite Liquors by Paper Chromatography. I. Z. Emel'ianova and T. A. Batrakova	155	142
Brief Communications. Quantitative Determination of Eusintomycin. N. N. Dykhanov and R. I. Shvidko.	163	148
A Distillation Method for Determining the Molecular Weight of Organic Compounds. L. M. Shuter and B. Iu. Gordinskii	165	150
Announcement	169	Inside back cover

JOURNAL OF ANALYTICAL CHEMISTRY OF THE USSR

Volume 13, Number 2 March-April 1958

CONTENTS

	PAGE	RUSS. PAGE
Sorption of Molybdenum and Rhenium from Various Media onto the Anion Exchange Resin EDE-10, and the Chromatographic Separation of These Elements. D.I. Biabchikov and L.V. Borisova	171	155
The Chromatographic Method in Qualitative Analysis. IV. Analysis of Cations of the Third Analytical Group. K.M. Ol'shanova and K.V. Chmutov	179	162
The Application of Precipitation Chromatography on Paper for Analysis of Inorganic Cations. F.N. Kulaev	181	172
Research in the Analytical Chemistry of Thallium. Part 1. Complexometric Determination of Thallium. A.I. Busev and V.G. Tiptsova	197	180
The Use of Complexons in Polarography. Part 2. The Behavior of Molybdenum on the Dropping Mercury Electrode in a Supporting Electrolyte of Complexons. S.I.Siniakova and M.I. Glinkina	203	186
The Solubility of Copper and Silver Reinecke Acid Salts. V.N. Podchainova	211	193
Determination of Small Amounts of Indium by a Titrimetric and Photometric Method. E.N. Deichman and I.V. Tananaev	215	196
Separation of Thorium from the Rare-Earths by Means of Pyridine and Pyridine Nitrate. E.A. Ostroumov	221	201
A Study of a Photometric Method of Determining Cerium as the Peroxide Complex. A.K. Babko and O.M. Eremenko	227	206
Photometric Determination of Cerium as Ceriummolybdic Heteropoly Acid. Z.F. Shakhova and S.A. Gavrilova	233	211
Analytical Application of Phenolcarboxylic Acids of the Triphenylmethane Series. Determination of Vanadium in Steels by Means of Aluminon. I.S. Mustafin and E.A. Kashkovskaia	237	215
A Color Reaction for Uranium With the Reagent Arsenazo. V.I. Kuznetsov	243	220
Polarographic Determination of Ozone and Chlorine in the Air of Industrial Concerns on Solid Electrodes. Communication II. I.B. Kogan	249	225
New Methods for the Quantitative Determination of Nitrogen and Halogens and Also for the Determination of Nitrogen, Sulfur and Halogens On One Aliquot of Organic Material. Communication IV. P.N. Fedoseev and N.P. Ivashova	255	230
Determination of Normal-Hydrocarbons in Paraffins by the Adsorption Analysis Method. G.L. Starobinets and T.A. Bol'shova	261	235

CONTENTS (continued)

	PAGE	RUSS. PAGE
Ultraviolet Spectrophotometric Determination of Naphthalene and α- and β-Chloronaphthalenes. A.P. Kreshkov, Iu.Ia. Mikhailenko and I.P. Smirenkina	269	242
Spectrophotometric Determination of Crotonaldehyde in the Ultraviolet. K.P. Stoliarov and V.S. Ivanov	273	246
Brief Communications		
Polarographic Determination of Ethyl Mercuric Chloride in Granosan. N.I. Maliugina and Z.V. Kresniakova	277	250
A Qualitative Reaction for Meta-Aminophenol and Para-Aminosalicylic Acid. G.Ia. Vanag and E.Ia. Lukevits	280	253
Color Reactions of Phenols With Xanthydrol. N.P. Iavorskii	282	255
The Use of a dc Current for Certain Chromatographic Studies. Stoiko Petrov Iankov	284	257
Petr Andreevich Volkov (10/1/1889-10/26/1957)	286	259
The Fourth Conference on the Analysis of the Noble Metals. May 20-23, 1957	287	260
Symposium on the Theory and Application of Complexons in Analytical Chemistry	289	261
Conference on the Use of Radioactive Isotopes in Analytical Chemistry	291	262
Criticism and Bibliography	293	264
The Organizing Committee of the Eighth Mendeleev Conference on General and Applied Chemistry	295	Inside back cover
USSR Academy of Sciences, Chemical Sciences Section. Competitions for Prizes of the USSR Academy of Sciences	297	Back cover

JOURNAL OF ANALYTICAL CHEMISTRY OF THE USSR

Volume 13, Number 3 May-June 1958

CONTENTS

	PAGE	RUSS. PAGE
The Analytical Application of 8-Mercaptoquinoline (Thiooxine) and its Derivatives. V. I. Kuznetsov, Iu. A. Bankovskii, and A. F. Ievin'sh	299	267
Photometric Determination of Thorium with Arsenazo in the Presence of Zirconium, Titanium, and the Rare Earths. F. V. Zaikovskii and L. I. Gerkhardt	307	274
Removal of Ethylenediaminetetracetic Acid from Solution by Oxidation. A. P. Smirnov-Averin, N. N. Krot and A. B. Sokolov	313	280
Polarographic Characteristics of the Thiosemicarbazide Complex of Copper in Sulfuric and Hydrochloric Solutions. V. N. Podchainova and M. K. Ivantsova	317	284
High-Frequency Titration. Communication IV. An Apparatus Based on a Bridge Setup. V. A. Zarinskii and D. I. Koshkin	323	289
A Photographic Method for Measuring the Intensity of the Color of Solutions in Small Volumes. Ia. M. Varshavskii and A. I. Shatenshtein	329	294
Coprecipitation of Cesium with Sparingly Soluble Dipicrylamines. I. M. Korenman and G. A. Shatalina	335	299
Spectrographic Determination of Calcium, Magnesium, Aluminum, Silicon, and Tin in Refined Rhodium and Iridium. A. V. Babaeva and O. N. Evstaf'eva	341	304
The Use of Thiosemicarbazides in Analysis. Communication I. Quantitative Determination of Uni- and Divalent Mercury by Means of 1-Phenylthiosemicarbazide. N. V. Koshkin	347	308
Dialkyl- and Diaryldithiophosphoric Acids as Analytical Reagents. Communication 4. Separation of Cadmium from Zinc and Other Elements. Gravimetric and Titrimetric Determination of Cadmium. A. I. Busev and M. I. Ivaniutin	351	312
The Use of Sodium Para-Aminobenzoate for the Titrimetric Determination of Cadmium. A. I. Portnov and A. I. Vasiutinskii	359	319
A Nephelometric Determination of Zinc by Means of Diantipyrylmethylmethane. S. I. Gusev and Z. A. Bitovt	363	323
A New Method for the Fluorimetric Determination of Gallium. V. A. Nazarenko and S. Ia. Vinkovetskaia	369	327
Determination of Zirconium by Means of Ammonium Benzeneseleninate and Ammonium Naphthaleneseleninate. I. P. Alimarin and V. S. Sotnikov	375	332
Amperometric Titration of Quadrivalent Uranium with Ammonium Vanadate. Iu. V. Morachevskii and I. A. Tserkovnitskaia	381	337

CONTENTS (continued)

	PAGE	RUSS. PAGE
Chromatographic Separation of Cobalt and Nickel During Analysis of Ores and Alloys. D. I. Riabchikov and L. V. Borisova	385	340
New Methods for the Quantitative Determination of Nitrogen, Sulfur, and Halogens on One Aliquot of Organic Material. Communication 4. The Use of Calcium for Decomposing Test Material. A. P. Terent'ev, P. N. Fedoseev, and N. P. Ivasheva	391	344
A Micro Method for the Determination of Halogens in Organic Materials. Communication II. Determination of Halogens by Combustion in a Stream of Oxygen. N. V. Sokolova and K. T. Loseva	397	349
Polarographic Determination of Formic Acid. P. S. Chechel' and L. I. Antropov	403	354
A New Method for the Determination of Micro Amounts of Citric Acid. A. P. Safronov.	409	360
Photonephelometric Determination of Vitamin B_1 (Thiamine). V. N. Bernshtein	415	365
A Method for the Quantitative Determination of Dimethylphenylcarbinol. A. V. Sokolov, N. K. Mikhailian and G. F. Korotaeva	419	368
The Photometric Determination of Zinc. A. I. Krupkin and L. A. Zhechkova	421	370
Spectrographic Analysis by the Evaporation Method. Communication 6. Determination of Cadmium, Germanium, Indium, Gallium, Gold, Antimony, and Lead in Uranous-Uranic Oxide. N. I. Kaliteevskii, A. A. Lipovskii, A. N. Razumovskii and P. P. Iakimova	423	372
Potentiometric Titration of Benzoquinone in Maleic Acid Solutions. A. I. Malyshev and I. I. Ioffe	427	374
Criticism and Bibliography	431	376

JOURNAL OF ANALYTICAL CHEMISTRY OF THE USSR

Volume 13, Number 4 July-August 1958

CONTENTS

	PAGE	RUSS. PAGE
Evaluation of the Results of Semi-Quantitative Spectrographic Analysis by Means of Poisson's Distribution. V. V. Nalimov and V. V. Nedler	433	379
The Use of Radioactive Isotopes for Studying the Spatial Distribution of Elements in the Plasma of a D.C. Arc During the Spectrographic Determination of Impurities in Uranium. E. E. Vainshtein and Iu. I. Beliaev	441	388
Extraction-Photometric Determination of Tantalum, Boron, Indium, and Rhenium. N. S. Poluetkov, L. I. Kononenko, and R. S. Lauer	449	396
Oxiation Reactions in Internal Electrolysis and Their Use in Chemical Analysis. Al. Lipchinskii	455	402
The Use of Ultra-Sound in Analytical Chemistry. Iu. A. Zolotov	461	408
A Study of the Formation of the Mixed Ferrocyanides of Copper and the Alkali Metals by a Potentiometric Method. V. D. Ponomarev and I. V. Tananaev	471	417
Microcrystalioscopic Reactions in Melts. I. M. Korenman and V. P. Kut'in	477	423
The Application of Diphenylcarbazone for the Photometric Determination of Copper in Iron and Steel. L. N. Lapin and N. V. Reis	481	426
The Possibility of Using Murexide as a Reagent for the Photometric Determination of Zinc. V. N. Tolmachev and O. M. Kirzhner	485	430
H-Resorcinol as a Reagent for the Photometric Determination of Boric Acid. V. A. Grizo and E. N. Poluektova	489	434
Photometric Determination of Gallium by Means of Gallion. G. G. Karanovich, L. A. Ionova, and B. L. Podol'skaia	495	439
Determination of Indium Present as an Impurity in Germanium. V. A. Nazarenko, E. A. Biriuk, and R. V. Ravitskaia	501	445
Application of the Method of Additions During Titrimetric Determination of Bismuth. P. N. Kovalenko	505	449
Organic Coprecipitants. Communication 9. Concentration and Spectrographic Determination of Molybdenum in Natural Waters. V. I. Kuznetsov, L. G. Loginova, and G. V. Miasoedova	509	453
The Effect of Quadrivalent Vanadium on the Reduction of Uranium on a Dropping Mercury Electrode. Iu. V. Morachevskii and A. A. Sakharov	513	457
An Analytical Study of the Precipitation of Quadrivalent Uranium by Sodium Hexametaphosphate. I. P. Alimarin, E. R. Nikolaeva, and G. I. Malofeeva	521	464

CONTENTS (continued)

	PAGE	RUSS. PAGE
Determination of Traces of Copper in Agricultural Materials by Means of Paper Chromatography. I. K. Tsitovich	527	469
Formation of Sulfonium Salts as a Method for the Determination of Organic Sulfides. A. Ia. Zama and Kh. A. Silland	531	473
Determination of Ketones, Esters, and Acids in the Products Obtained by Liquid Phase Oxidation of Paraffin Hydrocarbons, on the Basis of Their Absorption Spectra in the Infrared. I. V. Berezin and G. B. Meluzova	535	476
Color Reactions of Nitroindanedione. Communication II. Reactions with Indoles and Carbazole. G. Ia. Vanag and M. A. Matskanova	545	485
Determination of Mixtures of Xylene and Ethyl-Benzene Isomers. Ia. I. Leitman and M. S. Pevzner	547	487
BRIEF COMMUNICATIONS		
Chromatographic Separation of Rhenium and Tungsten. D. I. Riabchikov and L. V. Borisova	553	492
The Reaction of Uranium With Ferron (7-Iodo-8-hydroxyquinoline-5-sulfonic acid). V. A. Mikhailov	555	494
Detection of Magnesium Ions by Means of N-Arylquinocyanine Dyes. A. S. Babenko	557	496
Determination of Alcohols and Phenols Present as Impurities in Organosilicon Compounds Containing Ethoxy-, Methoxy-, and Phenoxy-Groups. A. P. Kreshkov and V. A. Bork	561	499
Separation of Iron and Copper Cations by Paper Chromatography in the Presence of Large Amounts of Carbohydrates. V. F. Oreshko and Z. I. Genserovskaia	563	501
Detection of Uranyl Ions. S. P. Onosova and V. E. Dmitriev	565	503
CHRONICLE		
The Conference Held at Ivanovo on Methods of Studying Complex Formation in Solution	567	504

JOURNAL OF ANALYTICAL CHEMISTRY OF THE USSR

Volume 13, Number 5 September-October 1958

CONTENTS

	PAGE	RUSS. PAGE
The Analytical Application of 8-Mercaptoquinoline (Thiooxine) and Its Derivatives. Communication II. The Photometric Determination of Small Amounts of Palladium. Iu. A. Bankovskii and A. F. Ievin'sh.	569	507
Separation of Thorium from Titanium, Zirconium, and Other Accompanying Elements by the Homogeneous Precipitation Method. F. V. Zaikovskii and L. I. Gerkhardt	575	513
The Chromometric Determination of Sexivalent Molybdenum by Means of Tungsten and Other Electrodes. A. I. Busev and Li Kun	581	519
The Coprecipitation of Zinc with Complex Compounds Containing Pyridine. I. M. Korenman and Z. I. Glazunova	591	528
A Study of the Reaction of Cupric Ions with Potassium Thiocyanate. V. N. Podchainova and S. P. Onosova	597	533
The Electrochemical Behavior of an Aluminum Electrode During Titration of Aluminum Ions with Fluoride. B. N. Kabanov and L. Ia. Poliak	603	538
Quantitative Determination of Thallium as the Dichromate. Communication 1. Gravimetric and Volumetric Methods. N. I. Bashilova	611	545
The Color Reactions of Gallium and Indium Salts with Organic Reagents. N. S. Poluektov and N. K. Kiseleva	621	555
Determination of Di- and Trivalent Titanium in Slags Containing Metallic and Divalent Iron. L. I. Veselago	629	562
Determination of Uranium by Means of Potassium Iodate. E. S. Przheval'skii, E. R. Nikolaeva and N. I. Udal'tsova	635	567
The Separation of Uranium and Vanadium. Iu. V. Morachevskii and A. I. Beliaeva, and L. V. Ivanova	639	570
Spectrochemical Determination of Tantalum in Zirconium. S. V. Elinson, K. I. Petrov, and A. T. Rezova	647	576
Determination of Calcium, Magnesium, Aluminum, Silicon, and Tin in Refined Platinum and Palladium. S. A. Borovik, A. V. Babaeva, N. I. Ushakova and R. I. Rudyi	653	580
Quantitative Determination of Fluoride Based on Formation of Hydroxytrifluoroborates. A. L. Gol'dinov, V. I. Lukhovitskii, M. A. Gorovits, and B. S. Roginskaia	657	583
New Color Reactions for Ferricyanides. N. S. Frumina	661	586
A Method for the Quantitative Determination of Water of Crystallization in Certain Crystallohydrates on the Basis of Their Absorption Spectra in the Near Infrared (0.8 – 2.5 μ). D. S. Gorbenko-Germanov, R. A. Zenkova and T. L. Bolotina	665	590

CONTENTS (continued)

	PAGE	RUSS. PAGE
New Methods for the Quantitative Determination of Halogens in Organic Compounds. II. Gravimetric Determination of Chlorine, Bromine, and Iodine. P. N. Fedoseev and M. Ia. Sobko	671	595
Determination of Cyclohexanone and Cyclohexanol in Each Others Presence. A. S. Maslennikov	675	599
Determination of Primary, Secondary, and Tertiary Amino Groups in Each Others Presence. G. D. Gal'pern and N. N. Bezinger	679	603
Polarographic Determination of Alkylnitrites. I. V. Patsevich, A. V. Topchiev and V. Ia. Shtern	685	608
Physicochemical Methods of Determining Antibiotics. Communication IV. Colorimetric Determination of Biomycin. L. B. Seniavina and B. P. Bruns	691	613
Brief Communications. A Photometric Method for the Determination of Cobalt as Cobaltinitrite. Florin Modrianu and Nikolae Iorga	697	617
Conductometric Determination of Carbonates and Bicarbonates in Each Others Presence. G. B. Pasovskaia	699	619
Chronicle. Conference on the Analysis of Gases in Metals. G. V. Mikhailova and N. F. Litvinova	703	622
Books published by the USSR Academy of Sciences	705	cover

JOURNAL OF ANALYTICAL CHEMISTRY OF THE USSR

Volume 13, Number 6 November-December 1958

CONTENTS

	PAGE	RUSS. PAGE
The Use of an Impulse Source for Spectra Excitation During the Spectrographic Analysis of Silicates. V. V. Korolev and E. E. Vainshtein	707	627
The Mutual Effect of Elements on Radiation Intensity in a Flame. Communication 1. The Use of the Two-Sprayer Technique. N. S. Poluektov and M. P. Nikonova	717	635
The Analytical Application of 8-Mercaptoquinoline (Thiooxine) and its Derivatives. Communication 3. The Photometric Determination of Small Amounts of Copper. Iu. A. Bankovskii and A. F. Ievin'sh	725	643
Dialkyl- and Diaryldithiophosphoric Acids as Analytical Reagents. Communication 7. Amperometric and Visual Titration of Lead by Means of Nickel Diethyldithiophosphate, in the Presence of Barium, Calcium, Zinc, and other Elements. A. I. Busev and M. I. Ivaniutin	729	647
Spectrographic Quantitative Determination of Hafnium in Zirconium Dioxide. G. I. Kibisov	735	653
Potentiometric Titration of Silver, Copper, Lead and Thallium by Means of Thioacetamide. L. M. Andreasov, E. I. Vail', V. A. Kremer, and V. A. Sheĭkhovskii	739	657
A Simplified Method For Internal Electrolysis Using a Diaphragm. A. K. Zhdanov, V. A. Khadeev, and F. M. Mirzabekov	745	661
The Determination of Micro Amounts of Copper, Lead, and Zinc in Natural Waters and in Soil Extracts. A. D. Miller and R. I. Libina	749	664
Separation of Titanium from Accompanying Elements by Ion Exchange Chromatography. Communication 3. Separation of Titanium and Zirconium. T. A. Beliavskaia, I. P. Alimarin and I. F. Kolosova	753	668
Determination of Di- and Trivalent Titanium in Chloride Melts by Means of Ferric Chloride. L. E. Ivanovskii, N. A. Loginov and M. V. Smirnov	757	671
Determination of Small Amounts of Zirconium and Hafnium in Silicate Rocks. A. M. Tuzova and A. A. Nemodruk	761	674
Photometric Determination of Germanium by Means of 9-[p-(N-dimethylamino)]-phenyl-2, 3, 7-trihydroxy-6-fluorone. N. F. Kazarinova and N. L. Vasil'eva	765	677
Determination of Vanadium and Chromium by Photometric Titration. V. F. Barkovskii	771	682
Determination of Sulfates by Reduction to Hydrogen Sulfide. I. I. Volkov and E. A. Ostroumov	777	686
Polarographic Determinations of Iodides in Molten Salts. R. M. Novik and Iu. S. Lialikov	783	691

CONTENTS (continued)

	PAGE	RUSS. PAGE
Rapid Methods of Microelemental Analysis. Communication 15. The Simultaneous Micro Determination of Carbon, Hydrogen, and Halogens in Organic Compounds. M. O. Korshun, N. E. Gel'man, and N. S. Sheveleva	787	695
A Method for the Quantitative Determination of Halogens in Organic Materials. Communication 3. Simultaneous, Independent, Gravimetric Determination of Chlorine, Bromine, and Iodine Taken Two and Three Elements at a Time. P. N. Fedoseev and M. Ia. Sobko	795	702
Determination of the Concentration of Tertiary Butanol and Acetone in the Oxidation Products of Isobutane, by Means of Their Infrared Absorption Spectra. G. B. Meluzova and A. A. Babaeva	799	706
The Analytical Chemistry of Hafnium. L. N. Komissarova and V. E. Pliushchev	803	709
BRIEF COMMUNICATIONS		
A Rapid Method for the Analysis of Clinker and Cement. Georgi N. Babachev	811	716
Determination of Peroxide Compounds in Pyrolysis Tar. A. P. Znamenskaia and A. V. Sokolov	815	719
Errata	817	
Tables of Contents for Volume 13, 1958	821	
Author Index for Volume 13, 1958	833	

Abramovich, L. Iu., see Turkel'taub, N. M.-43
Akimova, A. A., see Kuznetsov, V. I.-83
Aksenenko, V. M., see Onufrienok, I. P.-129
Alimarin, I. P., see Beliavskaia, T. A.-753
Alimarin, I. P., E. R. Nikolaev and G. I. Malofeeva. An Analytical Study of the Precipitation of Quadrivalent Uranium by Sodium Hexametaphosphate-521
Alimarin, I. P. and V. S. Sotnikov. Determination of Zirconium by Means of Ammonium Benzeneseleninate and Ammonium Naphthaleneseleninate-375
Andreasov, L. M., E. I. Vail', V. A. Kremer and V. A. Shelikovskii. Potentiometric Titration of Silver, Copper, Lead and Thallium by Means of Thioacetamide-739
Antropov, L. I., see Chechel', P. S.-403
Babachev, Georgi N. (Sofia, Bulgaria). A Rapid Method for the Analysis of Clinker and Cement-811
Babaeva, A. A., see Meluzova, G.B.-799
Babaeva, A. V., see Borovik, S. A.-653
Babaeva, A. V., and O. N. Evstaf'eva. Spectrographic Determination of Calcium, Magnesium, Aluminum, Silicon, and Tin in Refined Rhodium and Iridium-341
Babenko, A. S. Detection of Magnesium Ions by Means of N-Arylquinocyanine Dyes-557
Babko, A. K., and O. M. Eremenko. A Study of a Photometric Method of Determining Cerium as the Peroxide Complex-227
Bankovskii, Iu. A., and A. F. Ievin'sh. The Analytical Application of 8-Mercaptoquinoline (Thiooxine) and its Derivatives. Communication II. The Photometric Determination of Small Amounts of Palladium-569
Bankovskii, Iu. A., and A. F. Ievin'sh. The Analytical Application of 8-Mercaptoquinoline (Thiooxine) and its Derivatives. Communication 3. The Photometric Determination of Small Amounts of Copper-725
Bankovskii, Iu. A., see Ievin'sh, A. F.-569
Bankovskii, Iu. A., see Kuznetsov, V. I.-299
Barkovskii, V. F. Determination of Vanadium and Chromium by Photometric Titration-771
Bashilova, N. I. Quantitative Determination of Thallium as the Dichromate. Communication 1. Gravimetric and Volumetric Methods-611
Batrakova, T. A., see Emel'ianova, I. Z.-155
Belen'kaia, A. P., see Kazanskii, B. A.-147
Beliaev, Iu. I., see Vainshtein, E. E.-441
Beliaeva, A. I., see Morachevskii, Iu. V.-639
Beliavskaia, T. A., I. P. Alimarin and I. F. Kolosova. Separation of Titanium from Accompanying Elements by Ion Exchange Chromatography. Communication 3. Separation of Titanium and Zirconium-753
Berezin, I. V., and G. B. Meluzova. Determination of Ketones, Esters, and Acids in the Products Obtained by Liquid Phase Oxidation of Paraffin Hydrocarbons, on the Basis of Their Absorption Spectra in the Infrared-535
Bezinger, N. N., see Gal'pern, G. D.-679
Biabchikov, D. I., and L. V. Borisova. Sorption of Molybdenum and Rhenium from Various Media onto the Anion Exchange Resin EDE-10, and the Chromatographic Separation of These Elements -171
Biriuk, E. A., see Nazarenko, V. A.-501
Bitovt, Z. A., see Gusev, S. I.-363
Bolotina, T. L., see Gorbenko-Germanov, D. S.-665
Borisova, L. V., see Riabchikov, D. I.-171
Borisova, L. V., see Riabchikov, D. I.-385
Borisova, L. V., see Riabchikov, D. I.-553
Bork, V. A., see Kreshkov, A. P.-561
Borovik, S. A., A. V. Babaeva, N.I. Ushakova and R. I. Rudyi. Determination of Calcium, Magnesium, Aluminum, Silicon and Tin in Refined Platinum and Palladium-653
Bruns, B. P., see Seniavina, L. B.-691
Bufatin, O. I., A. N. Zaidel' and N. I. Kaliteevskii. Spectrochemical Determination of Platinum and Palladium in Uranium-127
Busev, A. I., and Li. Gyn. The Chromometric Determination of Sexivalent Molybdenum by Means of Tungsten and Other Electrodes-581
Busev, A. I., and M. I. Ivaniutin. Dialkyl- and Diaryldithiophosphoric Acids as Analytical Reagents. Communication 7. Amperometric and Visual Titration of Lead by Means of Nickel Diethyldithiophosphate, in the Presence of Barium, Calcium, Zinc, and Other Elements-729
Busev, A. I., and M. I. Ivaniutin. Dialkyl- and Diaryldithiophosphoric Acids as Analytical Reagents. Communication 3. Determination of Palladium by Means of Nickel or Potassium Dialkyl and Diaryldithiophosphates-15
Busev, A. I., and M. I. Ivaniutin. Dialkyl- and Diaryldithiophosphoric Acids as Analytical Reagents. Comm.4. Separation of Cadmium from Zinc and Other Elements. Gravimetric and Titrimetric Determination of Cadmium-351
Busev, A. I., and V. G. Tiptsova. Research in the Analytical Chemistry of Thallium. Part 1. Complexometric Determination of Thallium-197
Chechel', P. S., and L. I. Antropov. Polarographic Determination of Formic Acid-403
Chmutov, K. V., see Ol'shanova, K. N.-179
Deichman, E. N., and I. V. Tananaev. Determination of Small Amounts of Indium by a Titrimetric and Photometric Method-215
Diatlova, N. M., see Lastovskii, R. P.-29

Dmitriev, V. E., see Onosova, S. P.-565
Dykhanov, N. N., and R. I. Shvidko. Quantitative Determination of Eusintomycin-163

Elinson, S. V., and V. A. Olezniuk. A Gravimetric Method of Determining Uranium Using Cupferron for its Separation-101
Elinson, S. V., K. I. Petrov and A. T. Rezova. Spectrochemical Determination of Tantalum in Zirconium-647
Emel'ianova, I. Z., and T. A. Batrakova. A New Method for the Quantitative Determination of Reducing Sugars in Wood Hydrolyzates and Sulfite Liquors by Paper Chromatography-155
Eremenko, O. M., see Babko, A. K.-227
Evstaf'eva, O. N., see Babaeva, A. V.-341

Fabrikova, E. A., see Saltykova, V. S.-65
Fedoseev, P. N. Absorption of Sulfur Oxides by Silicates-133
Fedoseev, P. N., and N. P. Ivashova. New Methods for the Quantitative Determination of Nitrogen and Halogens and Also for the Determination of Nitrogen, Sulfur and Halogens on One Aliquot of Organic Material. Communication IV-255
Fedoseev, P. N., and M. Ia. Sobko. New Methods for the Quantitative Determination of Halogens in Organic Compounds. II. Gravimetric Determination of Chlorine, Bromine and Iodine-671
Fedoseev, P. N., and M. Ia. Sobko. A Method for the Quantitative Determination of Halogens in Organic Materials. Communication 3. Simultaneous, Inddependent, Gravimetric Determination of Chlorine, Bromine, and Iodine Taken Two and Three Elements at a Time-795
Fedoseev, P. N., see Terent'ev, A. P.-391
Frumina, N. S. New Color Reactions for Ferricyanides -661

Gal'pern, G. D., and N. N. Bezinger. Determination of Primary, Secondary, and Tertiary Amino Groups in Each Others Presence-679
Gavriolova, S. A., see Shakhova, Z. F.-233.
Gel'man, N. E., see Korshun, M. O.-787
Genserovskaia, Z. I., see Oreshko, V. F.-563
Gerkhardt, L. I., see Zaikovskii, F. V.-307
Glazunova, Z. I., see Korenman, I. M.-591
Glinkina, M. I., see Siniakova, S. I.-203
Gokhshtein, Ia. P. Application of Oscillographic Polarography in Quantitative Analysis. Communication 1. Effect of Atmospheric Oxygen Dissolved in the Electrolyte on the Values of the Capacity Current of the Supporting Electrolyte and the Maximum Value of the Current of the Ions Being Reduced-35
Gol'dinov, A. L., V. I. Lukhovitskii, M. A. Gorovits and B. S. Roginskaia. Quantitative Determination of Fluoride Based on Formation of Hydroxytrifluoroborates-657
Gorbenko-Germanov, D. S., R. A. Zenkova and T. L. Bolotina. A Method for the Quantitative Determination of Water of Crystallization in Certain Crystallohydrates on the Basis of Their Absorption Spectra in the Near Infrared (0.8-2.5 μ)-665
Gordinskii, B. Iu., see Shuter, L. M.-165
Gorovits, M. A., see Gol'dinov, A. L.-657
Grizo, V. A., and E. N. Poluektova. H-Resorcinol as a Reagent for the Photometric Determination of Boric Acid-489
Gusev, S. I., and Z. A. Bitovt. A Nephelometric Determination of Zinc by Means of Diantipyrylmethylmethane-363
Gyn, Li., see Busev, A. I.-581

Iakimova, P. P., see Kaliteevskii, N. I.-423
Iankov Stoiko Petrov. The Use of a dc Current for Certain Chromatographic Studies-284
Iatsimirskii, K. B., V. I. Rigin. Kinetic Methods of Quantitative Analysis. Communication 4. Determination of Small Amounts of Tungsten-121
Iavorskii, N. P. Color Reactions of Phenols with Xanthydrol-282
Ievin'sh, A. F., see Bankovskii, Iu. A.-725
Ievin'sh, A. F., see Kuznetsov, V. I.-299
Ioffe, A. I. Potentiometric Titration of Benzoquinone in Maleic Acid Solutions.-427
Ionova, L. A., and B. L. Podol'skaia. Photometric Determination of Gallium by Means of Gallion-495
Iorga, Nikolae, see Florin, Modreanu-697
Ivaniutin, M. I., see Busev, A. I.-15
Ivaniutin, M. I., see Busev, A. I.-729
Ivaniutin, M. I., see Busev, A. I.-351
Ivanov, V. S., see Stoliarov, K. P.-273
Ivanova, L. V., see Morachevskii, Iu. V.-639
Ivanovskii, L. E., N. A. Loginov and M. V. Smirnov. Determination of Di- and Trivalent Titanium in Chloride Melts by Means of Ferric Chloride -757
Ivantsova, M. K., see Podchainova, V. N.-317
Ivasheva, N. P., see Terent'ev, P. N.-391
Ivashova, N. P., see Fedoseev, P. N.-255

Kabanov, B. N., and L. Ia. Poliak. The Electrochemical Behavior of an Aluminum Electrode During Titration of Aluminum Ions with Fluoride-603
Kaliteevskii, N. I., see Bufatin, O. I.-127
Kaliteevskii, N. I., A. A. Lipovskii, A. N. Razumovskii and P. P. Iakimova. Spectrographic Analysis by the Evaporation Method. Comm. 6. Determination in Uranous-Uranic Oxide-423

Kapitanov, Iu. T., see Serdiukova, A. A.-93
Kashkovskaia, E. A., see Mustafin, I. S.-237
Kazanskii, B. A., O. D. Sterligov, A. P. Belen'kaia, G. Ia. Kondrat'eva and P. S. Pavlova. Bromometric Methods for the Determination of Unsaturated Hydrocarbons in Isopentane-Isoprene-Isoamylene Mixtures-147
Kazarinova, N. F., and N. L. Vasil'eva. Photometric Determination of Germanium by Means of 9-[p-N-Dimethylamino)]-phenyl-2,3,7'- trihydroxy-6- fluorone-765
Khadeev, V. A., see Zhdanov, A. K.-745
Kibisov, G. I. Spectrographic Quantitative Determination of Hafnium in Zirconium Dioxide-735
Kirichenko, E. A., see Kreshkov, A. P.-139
Kirzhner, O. M., see Tolmachev, V. N.-485
Kiseleva, N. K., see Poluektov, N. S.-621
Kogan, I. B. Polarographic Determination of Ozone and Chlorine in the Air of Industrial Concerns of Solid Electrodes. Communication II.-249
Kogan, Ia. L., see Tananaev, I. V.-9
Kolosova, L. F., see Beliavskaia, T. A.-753
Kolpakova, I. D., see Lastovskii, R. P.-29
Komissarova, L. N., and V. E. Pliushchev. The Analytical Chemistry of Hafnium-803
Kondrat'eva, G. Ia., see Kazanskii, B. A.-147
Kononenko, L. I., see Poluetkov-449
Korenman, I. M., and V. P. Kutin. Microcrystalloscopic Reactions in Melts-477
Korenman, I. M., and Z. I. Glazunova. The Coprecipitation of Zinc with Complex Compounds Containing Pyridine-591
Korenman, I. M., and G. A. Shtaline. Coprecipitation of Cesium with Sparingly Soluble Dipicrylamines -335
Korolev, V. V., and E. E. Vainshtein. The Use of an Impulse Source for Spectra Excitation During the Spectrographic Analysis of Silicates-707
Korotaeva, G. F., see Sokolov, A. V.-419
Korshun, M. O., N. E. Gel'man, and N. S. Sheveleva. Rapid Methods of Microelemental Analysis. Communication 15. The Simultaneous Micro Determination of Carbon, Hydrogen, and Halogens in Organic Compounds-787
Koshkin, N. V. The Use of Thiosemicarbazides in Analysis. Comm. 1. Quantitative Determination of Uni- and Divalent Mercury by Means of 1-Phenylthiosemicarbazide-347
Koshkin, D. I., see Zarinskii, V. A.-323
Kovalenko. P. N. Application of the Method of Additions During Titrimetric Determination of Bismuth-505
Kremer, V. A., see Andreasov, L. M.-739
Kreshkov, A. P., and V. A. Bork. Determination of Alcohols and Phenols Present as Impurities in Organosilicon Compounds Containing Ethoxy-, Methoxy-, and Phenoxy- Groups-561
Kreshkov, A. P., Iu. Ia. Mikhailenko and E. A. Kirichenko. Analysis of High Molecular Weight Organosilicon Compounds by Infrared Spectroscopy -139
Kreshkov, A. P., Iu. Ia. Mikhailenko and I. P. Smirenkina. Ultraviolet Spectrophotometric Determination of Naphthalene and α- and β-chloronaphthalenes-269
Kresniakova, Z. V., see Maliugina, N. I.-277
Krot, N. N., see Smirnov-Averin, A. P.-313
Krupkin, A. I., and L. A. Zhechkova. The Photometric Determination of Zinc-421
Kulaev, F. N. The Application of Precipitation Chromatography on Paper for Analysis of Inorganic Cations-181
Kut'in, V. P., see Korenman, I. M.-477
Kutsenko, Iu. I. A Spectrographic Method for the Determination of Small Amounts of Lead, Tin, Cadmium, Antimony and Bismuth in Metallic Rhenium-115
Kuz'mina, L. A. Determination of Uranium, Thorium and Ionium in Sea Silt-107
Kuznetsov, V. I. A Color Reaction for Uranium with the Reagent Arsenazo-243
Kuznetsov, V. I., A. A. Akimova. Organic Coprecipitants. Communication 8. Coprecipitation of Uranium During its Determination in Sea Water-83
Kuznetosv, V. I., Iu. A. Bankovskii and A. F. Ievin'sh. The Analytical Application of 8-Mercaptoquinoline (Thiooxine) and its Derivatives-299
Kuznetsov, V. I., L. G. Loginova and G. V. Miadoedova. Organic Coprecipitants. Communication 9. Concentration and Spectrographic Determination of Molybdenum in Natural Waters-509

Lapin, L. N., and N. V. Reis. The Application of Diphenylcarbazone for the Photometric Determination of Copper in Iron and Steel-481
Lastovskii, R. P., Iu. I. Vainshtein, N. M. Diatlova and I. D. Kolpakova. New Complexones. Communication 3. Benzylaminediacetic Acid and α,α', α"-Triaminedibenzyldiphenyl Methanehexaacetic Acid-29
Lauer, R. S., see Poluetkov, N. S.-499
Leitman, Ia. I., and M. S. Pevzner. Determination of Mixtures of Xylene and Ethyl-Benzene Isomers -547
Lialikov, Iu. S., see Novik, R. M.-783
Libina, R. I., see Miller, A. D.-749
Lipchinskii, Al. Oxidation Reactions in Internal Electrolysis and Their Use in Chemical Analysis-455

Lipovskii, A. A., see Kalitcevskii, N. I.-423
Litvinova, N. F. Chronicle. Conference on the Analysis of Gases in Metals-703
Loginov, N. A., see Ivanovskii, L. E.-757
Loginova, L. G., see Kuznetsov, V. I.-509
Loseva, K. T., see Sokolova, N. V.-397
Lukevits, E. Ia., see Vanag, G. Ia.-280
Lukin, A. M., and G. B. Zavarikhina. A new Reagent for the Photometric Determination of Gallium-Gallion. Communication I. The Effect of Substituents on the Properties of Organic Reagents-69
Lukhovitskii, V. I., see Gol'dinov, A. L.-657

Maliugina, N. I., and Z. V. Kresniakova. Polarographic Determination of Ethyl Mercuric Chloride in Granosan-277
Malofeeva, G. I., see Alimarin, I. P.-521
Maslennikov, A. S. Determination of Cyclohexanone and Cyclohexanol in Each Others Presence-675
Matskanova, M. A., see Vanag, G. Ia.-545
Meluzova, G. B., and A. A. Babaeva. Determination of the Concentration of Tertiary Butanol and Acetone in the Oxidation Products of Isobutane, by Means of Their Infrared Absorption Spectra-799
Meluzova, G. B., see Berezin, I. V.-535
Miasoedova, G. V., see Kuznetsov, V. I.-509
Mikhailenko, Iu. Ia., see Kreshkov, A. P.-139
Mikhailenko, Iu. Ia., see Kreshkov, A. P.-269
Mikhailian, N. K., see Sokolova, A. V.-419
Mikhailov, V. A. The Reaction of Uranium with Ferron (7-iodo-8-hydroxyquinoline-5-sulfonic acid)-555
Miller, A. D., and R. I. Libina. The Determination of Micro Amounts of Copper, Lead, and Zinc in Natural Waters and in Soil Extracts-749
Mirazbekov, F. M., see Zhdanov, A. K.-745
Modreanu, Florin and Nikolae Iorga. Brief Communications. A Photometric Method for the Determination of Cobalt as Cobaltinitrite-697
Morachevskii, Iu. V., and A. A. Sakharov. Polarographic Determination of Uranium in the Presence of Vanadium and Iron-87
Morachevskii, Iu. V., A. I. Beliaeva and L. V. Ivanova. The Separation of Uranium and Vanadium-639
Morachevskii, Iu. V., and A. A. Sakharov. The Effect of Quadrivalent Vanadium on the Reduction of Uranium on a Dropping Mercury Electrode-513
Morachevskii, Iu. V., and I. A. Tserkovniskaia. Amperometric Titration of Quadrivalent Uranium with Ammonium Vanadate-381
Mustafin, I. S., and E. A. Kashkovskaia. Analytical Application of Phenolcarboxylic Acids of the Triphenylmethane Series. Determination of Vanadium in Steels by Means of Aluminon-237

Nalimov, V. V., and V. V. Nedler. Evaluation of the Results of Semi-Quantitative Spectrographic Analysis by Means of Poisson's Distribution-433
Nazarenko, V. A., E. A. Biriuk, and R. V. Ravitskaia. Determination of Indium Present as an Impurity in Germanium-501
Nazarenko, V. A., and S. Ia. Vinkovetskaia. A New Method for the Fluorimetric Determination of Gallium-369
Nedler, V. V., see Nalimov, V. V.-433
Nemodruk, A. A., see Tuzova, A. M.-761
Nikitina, E. I. Photometric Determination of Tantalum in Titanium and its Alloys by Means of Arsenazo Reagent-75
Nikolaev, E. R., see Alimarin, L. P.-521
Nikolaev, E. R., see Przheval'skii, E. S.-635
Nikonova, M. P., see Poluetkov, N. S.-49
Nikonova, M. P., see Poluektov, N. S.-717
Novik, R. M., and Iu. S. Lialikov. Polarographic Determinations of Iodides in Molten Salts-783

Olezniuk, V. A., see Elinson, S. V.-101
Ol'shanova, K. M., and K. V. Chmutov. The Chromatographic Method in Qualitative Analysis. IV. Analysis of Cations of the Third Analytical Group-179
Omosova, S. P., and Dmitriev, V. E. Detection of Uranyl Ions-565
Onosova, S. P., see Podchainova, V. N.-597
Onufrienok, I. P., and V. M. Aksenenko. A New Method of Determining Tellurium-129
Oreshko, V. F., and Z. I. Genserovskaia. Separation of Iron and Copper Cations by Paper Chromatography in the Presence of Large Amounts of Carbohydrates-563
Ostroumov, E. A. Separation of Thorium from the Rare Earths by Means of Pyridine and Pyridine Nitrate-221
Ostroumov, E. A., see Vokov, I. I.-777

Pasovskaia, G. B. Conductometric Determination of Carbonates and Bicarbonates in Each Others Presence-699
Patsevich, I. V., A. V. Topchiev and V. Ia. Shtern. Polarographic Determination of Alkylnitrites -685
Pavlova, P. S., see Kazanskii, V. A.- 147
Petrov, K. I., see Elinson, S. V.-647
Pevzner, M. S., see Leitman, Ia. I.-547
Pilipenko, A. T., and I. P. Sereda. The Use of Selenourea in Analytical Chemistry. I. The Behavior of Selenourea Toward the Cations of the Heavy Metals and the Composition and Stability of the Selenourea Complexes of Bismuth-1
Pliushchev, V. E., see Komissarova, L. N.-803
Podchainova, V. N. The Solubility of Copper and Silver Reinecke Acid Salts-211

Podchainova, V. N., and M. K. Ivantsova. Polarographic Characteristics of the Thiosemicarbazide Complex of Copper in Sulfuric and Hydrochloric Solutions -317

Podchainova, V. N., and S. P. Onosova. A Study of the Reaction of Cupric Ions with Potassium Thiocyanate-597

Podol'skata, B. L., see Ionova, L. A.-495

Poliak, L. Ia., see Kabanov, B. N.-603

Poluetkov, N. S., L. I. Kononenko and R. S. Lauer. Extraction-Photometric Determination of Tantalum, Boron, Indium, and Rhenium-449

Poluetkov, N. S., and N. K. Kiseleva. The Color Reactions of Gallium and Indium Salts with Organic Reagents-621

Poluektov, N. S., and M. P. Nikonova. The Mutual Effect of Elements on Radiation Intensity in a Flame. Communication 1. The Use of the Two-Sprayer Technique-717

Poluetkov, N. S., M. P. Nikonova and R. A. Vitkun. Determination of Sodium and Potassium in Minerals by Flame Spectrophotometry-49

Poluektova, E. N., see Grizo, V. A.-489

Ponomarev, V. D., and I. V. Tananaev. A Study of the Formation of the Mixed Ferrocyanides of Copper and the Alkali Metals by a Potentiometric Method. -470

Portnov, A. I., and A. I. Vasiutinskii. The Use of Sodium Para-aminobenzoate for the Titrimetric Determination of Cadmium-259

Przheval'skii, E. S., E. R. Nikolaev and N. I. Udal'tsova. Determination of Uranium by Means of Potassium Iodate-635

Ravitskaia, R. V., see Nazarenko, V. A.-501

Razumovskii, A. N., see Kaliteevskii, N. I.-423

Reis, N. V., see Lapin, L. N.-481

Rezova, A. T., see Elinson, S. V.-647

Riabchikov, D. I., and L. V. Borisova. Chromatographic Separation of Cobalt and Nickel During Analysis of Ores and Alloys-385

Riabchikov, D. I., and L. V. Borisova. Brief Communications. Chromatographic Separation of Rhenium and Tungsten-553

Rigin, V. I., see Iatsimirskii, K. B.-121

Roginskaia, B. S., see Gol'dinov, A. L.-657

Rudyi, R. I., see Borovik, S. A.-653

Sakharov, A. A., see Morachevskii, Iu. V.-87

Sakharov, A. A., see Morachevskii, Iu. V.-513

Saltykova, V. S., and E. A. Fabrikova. Determination of Gallium in Minerals by Means of the Rhodamine Photometric Method-65

Semenov, N. N. An Arc Lamp for Emission Spectrographic Analysis of Powders-57

Seniavina, L. B., and B. P. Bruns. Physicochemical Methods of Determining Antibiotics. Communication IV. Colorimetric Determination of Biomycin-691

Serdiukova, A. S., and Iu. T. Kapitanov. The Use of Radiometric Methods for the Simultaneous Separate Determination of the Content of Uranium, Thorium, Radium and Potassium in Acid Igneous Rocks-93

Sereda, I. P., see Pilipenko, A. T.-1

Shakhova, Z. F., and S. A. Gavriolova. Photometric Determination of Cerium as Ceriummolybdic Heteropoly Acid-233

Shatenshtein, A. I., see Varshavskii, Ia. M.-329

Shelikhovskii, V. A., see Andreasov, L. M.-739

Sheveleva, N. S., see Korshun, M. O.-787

Shtaline, G. A., see Korenman, I. M.-335

Shuter, L. M., and B. Iu. Gordinskii. A Distillation Method for Determining the Molecular Weight of Organic Compounds-165

Shvidko, R. I., see Dykhanov, N. N.-163

Silland, Kh. A., see Zarna, A. Ia.-531

Siniakova, S. I., and M. I. Glinkina. The Use of Complexons in Polarography. Part 2. The Behavior of Molybdenum on the Dropping Mercury Electrode in a Supporting Electrolyte of Complexons-203

Smirenkina, I. P., see Kreshkov, A. P.-269

Smirnov, M. V., see Ivanovskii, L. E.-757

Smirnov-Averin, A. P., N. N. Krot and A. B. Sokolov. Removal of Ethylenediaminetetracetic Acid from Solution by Oxidation-313

Sobko, M. Ia., see Fedoseev, P. N.-671

Sobko, M. Ia., see Fedoseev, P. N.-795

Sokolov, A. V., N. K. Mikhailian and G. F. Korotaeva. A Method for the Quantitative Determination of Dimethylphenylcarbinol-419

Sokolov, A. B., see Smirnov-Averin, A. P.-313

Sokolov, A. V., see Znamenskaia, A. P.-815

Sokolova, N. V., and K. T. Loseva. A Micro Method for the Determination of Halogens in Organic Materials, Comm. II. Determination of Halogens by Combustion in a Stream of Oxygen-397

Sotnikov, V. S., see Alimarin, I. P.-375

Starobinets, G. I., and T. A. Bol'shova. Determination of Normal Hydrocarbons in Paraffins by the Absorption Analysis Method-261

Sterligov, O. D., see Kazanskii, B. A.-147

Stoliarov, K. P., and V. S. Ivanov. Spectrophotometric Determination of Crotonaldehyde in the Ultraviolet-273

Tananaev, I. V., see Deichman, E. N.-215

Tananaev, I. V., and Ia. L. Kogan. A Study of the Formation of Silver Chloride and Silver Bromide by Light Extinction-9

Tananaev, I. V., see Ponomarev, V. D.-470

Terent'ev, A. P., P. N. Fedoseev and N. P. Ivasheva. New Methods for the Quantitative Determination of Nitrogen, Sulfur and Halogens on One Aliquot of Organic Material. Comm. 4. The Use of Calcium for Decomposing Test Material-391

Tiptsova, V. G., see Busev, A. I.-197

Tolmachev, V. N., and O. M. Kirzhner. The Possibility of Using Murexide as a Reagent for the Photometric Determination of Zinc-485

Topchiev, A. V., see Patsevich, I. V.-685

Tserkovniskaia, I. A., see Morachevskii, Iu. V.-381

Tsitovich, I. K. Determination of Traces of Copper in Agricultural Materials by Means of Paper Chromatography-527

Turkel'taub, N. M., and L. Iu. Abramovich. The Use of the Mass Spectrometer for Establishing the Resolving Capacity of Chromathermographic Apparatus-43

Tuzova, A. M., and A. A. Nemodruk. Determination of Small Amounts of Zirconium and Hafnium in Silicate Rocks-761

Udal'tsova, N. I., see Przheval'skii, E. S.-635

Ushakova, N. I., see Borovik, S. A.-653

Vail', E. I., see Andreasov, L. M.-739

Vainshtein, E. E., and Iu. I. Beliaev. The Use of Radioactive Isotopes for Studying the Spatial Distribution of Elements in the Plasma of a dc Arc During the Spectrographic Determination of Impurities in Uranium-441

Vainshtein, E. E., see Korolev, V. V.-707

Vainshtein, Iu. I., see Lastovskii, R. P.-29

Vanag, G. Ia., and E. Ia. Lukevits. A Qualitative Reaction for Meta-Aminophenol and Para-Aminosalicyclic Acid-280.

Vanag, G. Ia., and M. A. Matskanova. Color Reactions of Nitroindanedione. Communication II. Reactions with Indoles and Carbazole-545

Varshavskii, Ia. M., and A. I. Shatenshtein. A Photographic Method for Measuring the Intensity of the Color of Solutions in Small Volumes-329

Vasil'eva, N. L., see Kazarinova, N. F.-765

Vasiutinskii, A. I., see Portnov, A. I.-359

Veselago, L. I. Determination of Di- and Trivalent Titanium in Slags Containing Metallic and Divalent Iron-629

Vinkovetskaia, S. Ia., see Nazarenko, V. A.-369

Vitkun, R. A., see Poluetkov, N. S.-49

Volkov, I. I., and E. A. Ostroumov. Determination of Sulfates by Reduction to Hydrogen Sulfide-777

Zaidel', A. N., see Bufatin, O. I.-127

Zaikovskii, F. V., and L. I. Gerkhardt. Photometric Determination of Thorium with Arsenazo in the Presence of Zirconium, Titanium, and the Rare Earths-307

Zaikovskii, F. V., and L. I. Gerkhardt. Separation of Thorium and Titanium, Zirconium and Other Accompanying Elements by the Homogeneous Precipitation Method-575

Zarinskii, V. A., and D. I. Koshkin. High-Frequency Titration. Comm. 4. An Apparatus Based on a Bridge Setup-323

Zarna, A. Ia. and Kh. A. Silland. Formation of Sulfonium Salts as a Method for the Determination of Organic Sulfides-531

Zavarikhina, G. B., see Lukin, A. M.-69

Zenkova, R. A., see Gorbenko-Germanov, D. S. -665

Zhdanov, A. K., V. A. Khadeev and F. M. Mirazbekov. A Simplified Method for Internal Electrolysis Using a Diaphragm-745

Zhechkova, L. A., see Krupkin, A. I.-421

Znamenskaia, A. P., and A. V. Sokolov. Determination of Peroxide Compounds in Pyrolysis Tar -815

Zolotov, Iu. A. The Use of Ultra-Sound in Analytical Chemistry-461